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| APPLICATION NO.  | FILING DATE   | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.           | CONFIRMATION NO |
|--|---------------|----------------------|-------------------------------|-----------------|
| 10/046,727   | 01/17/2002    | Graham D. Cook       | 1142.0125-00 2584<br>EXAMINER |                 |
| , i -  | 90 09/22/2004 |                      |                               |                 |
| Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. |               |                      | KIM, JENNIFER M               |                 |
| 1300 I Street, N                                       |               |                      | ART UNIT                      | PAPER NUMBER    |
| Washington, D  | C 20005-3315  |                      | 1617                          |                 |
|  |               |                      | DATE MAILED: 09/22/2004       |                 |

Please find below and/or attached an Office communication concerning this application or proceeding.

|   | Application No.      | Auglicant/a) |  |  |  |  |  |
|---|----------------------|--------------|--|--|--|--|--|
|   | Application No.      | Applicant(s) |  |  |  |  |  |
| Office Action Communication   | 10/046,727           | COOK ET AL.  |  |  |  |  |  |
| Office Action Summary   | Examiner             | Art Unit     |  |  |  |  |  |
| 1   | Jennifer Kim         | 1617         |  |  |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  |                      |              |  |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |                      |              |  |  |  |  |  |
| Status  |                      |              |  |  |  |  |  |
| 1)⊠ Responsive to communication(s) filed on <u>23 August 2004</u> .   |                      |              |  |  |  |  |  |
| _   | action is non-final. |              |  |  |  |  |  |
| · <u> </u>  | <u>, —</u>           |              |  |  |  |  |  |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.   |                      |              |  |  |  |  |  |
| Disposition of Claims   |                      |              |  |  |  |  |  |
| 4)⊠ Claim(s) <u>1,2 and 6-13</u> is/are pending in the application.   |                      |              |  |  |  |  |  |
| 4a) Of the above claim(s) is/are withdrawn from consideration.  |                      |              |  |  |  |  |  |
| 5) Claim(s) is/are allowed.   |                      |              |  |  |  |  |  |
| 6)⊠ Claim(s) <u>1,2 and 6-13</u> is/are rejected.   |                      |              |  |  |  |  |  |
| 7) Claim(s) is/are objected to.   |                      |              |  |  |  |  |  |
| 8) Claim(s) are subject to restriction and/or election requirement.   |                      |              |  |  |  |  |  |
| Application Papers  |                      |              |  |  |  |  |  |
| 9)☐ The specification is objected to by the Examiner.   |                      |              |  |  |  |  |  |
| 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.   |                      |              |  |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).   |                      |              |  |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  |                      |              |  |  |  |  |  |
| 11) $\square$ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  |                      |              |  |  |  |  |  |
| Priority under 35 U.S.C. § 119  |                      |              |  |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:  |                      |              |  |  |  |  |  |
| 1. Certified copies of the priority documents have been received.   |                      |              |  |  |  |  |  |
| 2. Certified copies of the priority documents have been received in Application No  |                      |              |  |  |  |  |  |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage   |                      |              |  |  |  |  |  |
| application from the International Bureau (PCT Rule 17.2(a)).   |                      |              |  |  |  |  |  |
| * See the attached detailed Office action for a list of the certified copies not received.  |                      |              |  |  |  |  |  |
|   |                      |              |  |  |  |  |  |
| Attachment(s)   |                      |              |  |  |  |  |  |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)  |                      |              |  |  |  |  |  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date.  5) Notice of Informal Patent Application (PTO-15)  |                      |              |  |  |  |  |  |
| Paper No(s)/Mail Date 6)  Other:  |                      |              |  |  |  |  |  |

#### **DETAILED ACTION**

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicants' submission filed on August 23, 2004 has been entered. Applicants' arguments with respect to claims 1-13 have been considered but are most in view of the new ground(s) of rejection.

#### Claims 1-2 and 6-13 are presented for examination.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 2 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by White (U.S.Patent No. 5,431,916).

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White teaches a composition comprising "effective amounts" of ibuprofen, diphenhydramine and polyethylene glycol can be formulated in soft gelatin capsule. (column 5, lines 20-65, column 6, lines 65-68, column 7, lines 5-25, Example 11, claims 13 and 15). Applicants recitation in claims 2 and 6 of an intended use to treat a pain-associated sleep disturbance does not represent a patentable limitation and given the broadest interpretation of claims drawn to "effective amounts" are encompassed by the prior art of Examples IV, where it teaches a composition comprising "effective amounts" utilized to formulate a wide variety of pharmaceutical composition taught by the prior art.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 6-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sunshine et al. (U.S.Patent No. 4,522,826) of record in view of White (U.S.Patent No. 5,431,916).

Sunshine et al. teach a pharmaceutical composition comprising 50-400mg ibuprofen and from about 12.5-50mg diphenhydramine elicits an enhanced analgesic and/or anti-inflammatory response. (abstract, column 6, lines 44-45, column 7, lines 1-

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4, column 14, claim 39). Sunshine et al. also teach that polyethylene glycol is an acceptable carrier to the above composition (column 7, lines 31-35). Sunshine et al. teach the above composition can be formulated in capsules. (column 7, lines 20-23, claim 41). Sunshine et al. teach that diphenhydramine is commercially available as the hydrochloride salt. (column 1, lines 60-65).

Sunshine et al. do not teach the composition formulated in a **soft gelatin** capsule.

White teaches a composition comprising ibuprofen, diphenhydramine and polyethylene glycol can be formulated in soft gelatin capsule. (column 5, lines 20-65, column 6, lines 65-68, column 7, lines 5-25, Example 11, claims 13 and 15). White discloses that soft gelatin capsules are convenient, portable and easy to swallow and offer a simple means of masking the unpleasant taste and aromas of many pharmaceutically acceptable actives. (column 1, lines 25-31).

It would have been obvious to one of ordinary skill in the art to formulate Sunshine composition into soft gelatin capsules because the composition can be formulated in capsule form in general as taught by Sunshine et al. and it is well-known by White that the composition comprising diphenhydramine and ibuprofen can be formulated in soft gelatin capsules. One would have been motivated to formulate Sunshine composition to soft gelatin capsules in to achieve provide convenient, portable and easy to swallow capsule as taught by White. Further, that soft gelatin capsules are advantageously offer a simple means of masking the unpleasant taste and aromas of many pharmaceutically acceptable actives. One would have been motivated to deliver

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the composition taught by Sunshine in a soft gelatin capsules that are portable and easy to swallow and to avoid the unpleasant taste of the actives. (ibuprofen and diphenhydramine). Moreover, Applicants' recitation in claim 2 and the intended use of polyethylene glycol in claim 6 do not represent a patentable limitation in a composition claims since it fails to impart any physical limitation to the composition.

Claims 1, 2 and 7-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sunshine et al. (U.S.Patent No. 4,522,826) of record in view of Weng et al. (U.S.Patent No. 5,512,300) and further in view of Ouali et al. (U.S.Patent No. 6287600).

Sunshine et al. teach a pharmaceutical composition comprising 50-400mg ibuprofen and from about 12.5-50mg diphenhydramine elicits an enhanced analgesic and/or anti-inflammatory response. (abstract, column 6, lines 44-45, column 7, lines 1-4, column 14, claim 39). Sunshine et al. also teach that polyethylene glycol is an acceptable carrier to the above composition (column 7, lines 31-35). Sunshine et al. teach the above composition can be formulated in tablet form or two or more layered tablets. (column 8, lines 4-10). Sunshine et al. teach that diphenhydramine is commercially available as the hydrochloride salt. (column 1, lines 60-65).

Sunshine et al. do not teach the separation of ibuprofen and diphenhydramine in bilayer tablet formulation.

Weng et al. report that it has been recognized that solid dosage forms such as tablets containing ibuprofen and other ingredients tend to exhibit stability problems, including the formulation of low melting point eutectics. (column 1, lines 13-20). Weng

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et al. report ibuprofen forms low melting point eutectics with diphenhydramine hydrochloride. (column 1, lines 55-57).

Ouali et al. teach that bilayer tablets have advantages in that it is easier and more economical to manufacture than prior compositions that separate a first drug and a second drug into physically discrete regions of a single dosage form. (column 7, lines 30-41).

It would have been obvious to one of ordinary skill in the art to separate diphenhydramine and ibuprofen of Sunshine composition in a bilayer tablet because diphenhydramine and ibuprofen in a solid dosage forms such as tablets tend to exhibit stability problems including the formation of eutectics as taught by Weng et al. and because bilayer formulation of Sunshine composition has advantage of separate a first drug and a second drug into physically discrete regions of a single dosage form as taught by Ouali et al. One would have been motivated to separate ibuprofen and diphenhydramine bilayer tablet into physically discrete region of a single bilayer tablets in order to avoid the eutectic stability problems of solid dosage form comprising diphenhydramine and ibuprofen reported by Wang et al.

For these reasons the claimed subject matter is deemed to fail to patentably distinguish over the state of the art as represented by the cited references. The claims are therefore properly rejected under 35 U.S.C. 103.

None of the claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer Kim whose telephone number is 571-272-0628. The examiner can normally be reached on Monday through Friday 6:30 am to 3 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sreenivasan Padmanabhan Supervisory Examiner

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Jmk September 9, 2004